Digital Devices

Installation Instructions

DVB Duo Flex S2

DVB CI Common Interface

Visit our website at www.digital-devices.de for up to date information about the latest developments, and to download current drivers.

Digital Devices

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1. Safety Considerations

- Please read the following safety instructions carefully to ensure reliable operation and long life of your TV card.
- Protect your TV card and the PC from moisture, dust, heat and direct sunlight at all times to avoid the risk of damage and malfunction.
- Keep this manual within reach of your PC for easy access at all times.
- Resellers - please pass these instructions on to your end-customer.

2. Operating Safety

- Follow this advice and the instructions carefully.
- The TV card should be installed by a properly qualified technician or a person with relevant knowledge and expertise.
- Before installing the TV card, disconnect the PC from the mains power supply. Failure to do so could lead to serious injury and/or damage.
- This TV card is intended only for use in a PC and to be powered via PCI Express bus.
- Do not try to work through slots or other openings in your PC with tools. Doing so could cause an electrical short circuit and/or fire.

Electrostatic discharge (ESD) can damage the internal components of a PC. Any changes to the system, including enhancements and upgrades, should be carried out at an ESD-protected workplace.
If such a workplace is not available, use an anti-static wrist strap or maintain constant physical contact with a highly conductive metal body.

No liability will be accepted for damage caused by ESD as a result of improper handling.

Please contact your supplier if you have any of the following technical problems with your TV card:-

- Your TV card has come into contact with liquid.
- The TV card is not working properly.

If a repair is required, please contact our authorised service partners only.

Never let children play unsupervised near electrical equipment.
They are too young to recognize the hazards.

3. Installation - Precautions

- Following receipt of your TV card, allow it to warm to room temperature before starting the installation procedure to avoid the risk of an electrical short circuit. High temperatures and/or variations in humidity can cause condensation, which can lead to an electrical short.
- Site your PC on a flat, stable, vibration-free surface to avoid the risk of accident and injury.
- Damage from electrical shock can be avoided only if ALL cables to external devices, telephone networks and mains power are disconnected.
  Most damage is caused by lightning strikes to telephone networks and spikes in mains voltage.

4. Electromagnetic Compatibility

- The guidelines for electromagnetic compatibility (EMC) must be observed at all times when connecting the TV card.
- A minimum distance of 40 inches should be maintained from TVs, mobile phones, speaker cabinets, etc. to avoid high frequency and magnetic interference.

5. Cleaning

- The TV card does not require cleaning under normal operation.
- In the unlikely event that cleaning is required ensure all power connectors and mains cables are properly disconnected.
- The TV card has no serviceable parts. Protect it from contamination (see Safety Considerations above) and do not use solvent, caustic or gaseous cleaning agents.
- If necessary, the external connectors of the TV card can be cleaned with a soft, dry anti-static cloth.

6. *Data Backup*

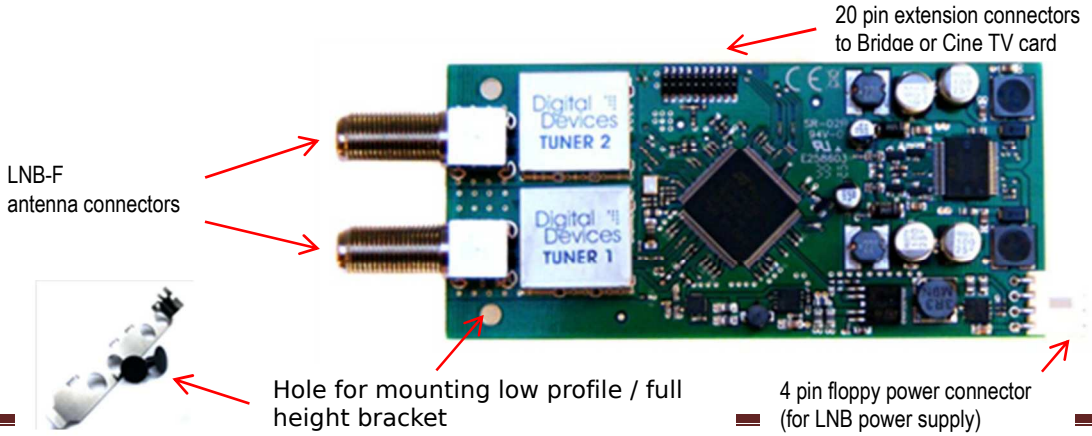
- *Always make a backup copy of your data on a suitable external storage medium (CD, floppy, Zip etc.) before and after updating.*
- *Claims for damages in respect of lost data and consequential losses arising from lost data will not be accepted.*

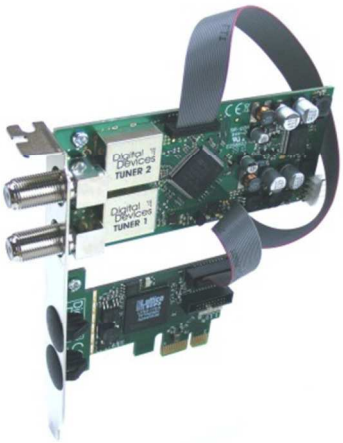
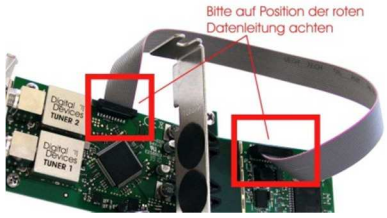
7. Installation of DuoFlex S2 DVB Card

(Please refer to the illustrations on the following pages)

- Read the safety instructions for your PC and those on previous pages carefully.
- Turn off the PC and all peripheral devices.
- Unplug the power cable and remove all other external cables.
- Unscrew and carefully remove the PC cover to gain access to the inside.
- Unscrew the blank slot bracket from a free PCIe slot and remove it.
- 2 slot brackets (full height & low profile) are enclosed in the package.
- Holding the DuoFlex S2 by its edges, carefully screw the appropriate slot bracket for your PC to the card.
- Again, holding the DuoFlex S2 by its edges, position it vertically over a free PCI/PCIe slot and locate the slot bracket in the PC chassis. Be careful not to damage any internal components.
- Screw the slot bracket of the DuoFlex S2 to the PC chassis.
- Connect a standard 4 pin floppy power connector (to power the LNB) to the connector at the rear of the DuoFlex S2.
- Plug the 20 pin flat ribbon cable to the connector of the DuoFlex S2 and to a Bridge or Cine TV card, as appropriate (see illustrations on next page).
- Replace the PC cover and reconnect all cables.
- Connect the coaxial antenna cable(s) to the corresponding antenna connector(s) of the DuoFlex S2 card.
- The installation of your new DuoFlex S2 card with its connections is now complete.
- Finally, connect the power cable to the PC and switch on the PC.
- Do not try to start the PC unless the PC cover is tightly refitted and secure

Illustration – DuoFlex S2 with connectors

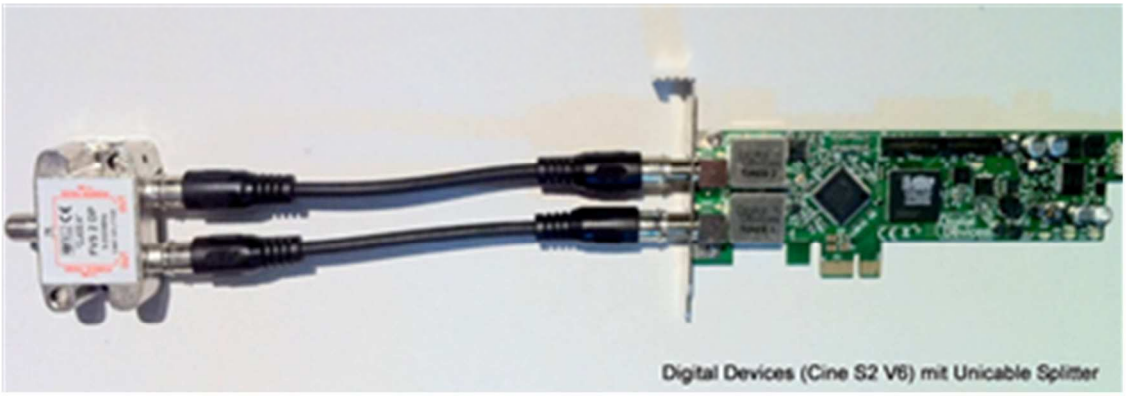


Connection to a Cine S2 DVB-S2 card	Connection to an Octopus LE Bridge
	
Please note on the correct connection of the flat ribbon cable:- PIN 1 (red cable) of the DuoFlex S2 on the right and of the Bridges and Cine cards on the left.	

8. Unicable® Installation

Single Cable solution via En50494/SCR (Single Cable Routing)

- Unicable® is a single cable distribution technology that enables delivery of multiple, simultaneous DVB signals via a single coax antenna cable. Up to 8 tuners can be connected to a Unicable®/SCR/CENELEC En50494 compliant LNB or Multiswitch.
- Both F connector ports of the DuoFlex S2 must be connected via a suitable 2-way splitter to feed the combined signal to each tuner from the antenna.
- The splitter must be suitable for Unicable® to allow bi-directional passage of both RF and DC signals between the LNB and tuners.
- The assignment of the appropriate Unicable frequencies and channels is made via the DVBCineConfigTool (see Chapter 12).


Digital Devices (Cine S2 V6) mit Unicable Splitter

9. Installation of a Common Interface (CI)

Tested CAMs:
- Mascom Alphacrypt Light with Sky S02 (Firmware 1.16/3.16) and SRG
- Mascom Easy TV with Sky S02 and ORF
- SMIT Irdeto/Cryptoworks with ORF (2 tuners)
- SMIT Viaccess with SRG (2 tuners)
- Technicrypt CW with ORF (2 tuners)
- SCM Cryptoworks (1 tuner)

For Mascom CAMs, the 'protection of minors' (parental control) feature should be switched off for use when viewing Sky.

- 2 slot brackets are enclosed with the package (full height and low profile).
- Carefully screw the appropriate bracket for your PC to the CI card.
- Holding the CI card carefully by its edges, position it vertically over a free PCI/PCIe slot and locate the slot bracket in the PC chassis. Be careful not to damage any internal components.
- Screw the slot bracket to the PC chassis.
- Connect a standard 4 pin floppy power connector (to power the LNB) to the connector at the rear of the CI card.
- Connect the supplied 20 pin ribbon cable to the corresponding connectors of your Cine DVB card (red wire on left) and the CI card (red wire to bottom)

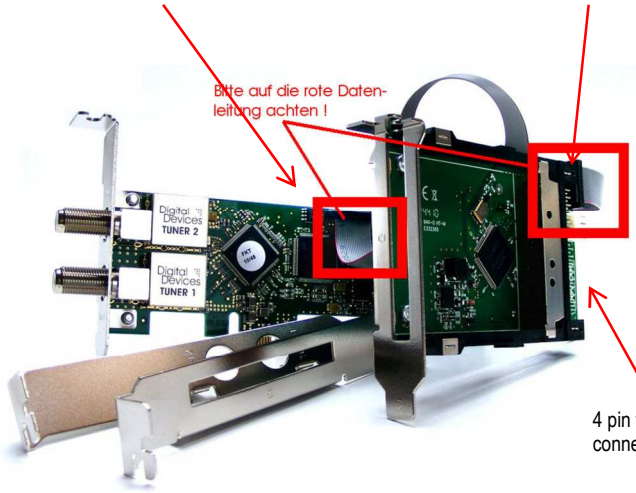


Illustration:-
Connection to a Cine S2 card. The CI can also be connected to a Bridge, as illustrated in Section 7.

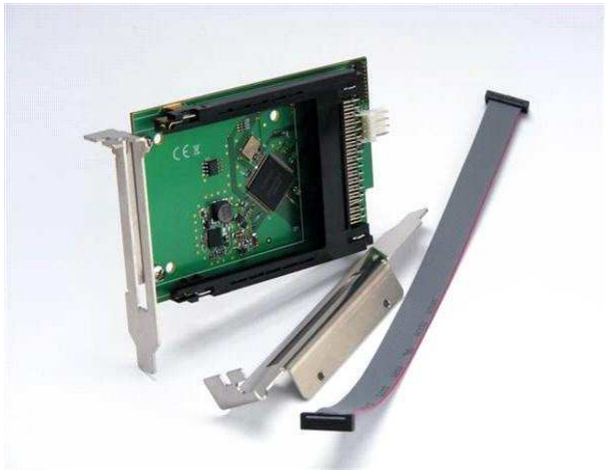


Illustration:-
CI module with 20 pin ribbon cable showing low profile and full height brackets

10. Driver Installation

- The TV card has now been installed in your PC in accordance with the previous sections and you have restarted the computer.
- Drivers are available for the following operating systems:-
  - Windows® XP (32/64 bit)
  - Windows® Vista (32/64 bit)
  - Windows® 7 (32/64 bit)

  and the BDA driver for Mediaportal DVB Viewer.
- In Windows® XP, you must log on with an administrator's account.
- Open your web browser and go to www.digital-devices.de.
- On the home page click on 'Downloads' and when the page has opened download the appropriate drivers and save to a convenient location.
  (executable file: 'DigitalDevices DVB *Driver X*.msi')
- Run the setup program by double clicking the file you just downloaded –'DigitalDevices DVB *Driver X*.msi'.

Windows Security
Would you like to install this device software?
Name: Digital Devices DVB Driver V2
Publisher: Digital Devices GmbH
Always trust software from "Digital Devices GmbH".
Install
Don't Install
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

- Follow the on-screen instructions.
- When the installation is complete, restart the computer.
- The Unicable® feature is integrated in the driver, and can be configured via the 'DVBCineConfig' tool.

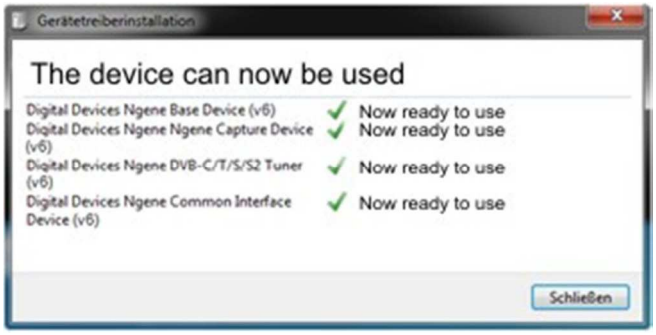
If your operating system is configured by default to accept only Microsoft approved (signed) programs and drivers, a warning message may appear:-
"Windows cannot verify the publisher of this driver software ...". This is not an indication of a fault with the driver, but to the absence of Microsoft WHQL certification and can therefore be ignored by clicking the 'Next' button or the option to, "Install this driver software anyway..."

When new drivers or programs are installed, existing data is overwritten or changed. You should accordingly create a backup copy before installation on your hard drive. Claims for damages in respect of lost data and consequential losses arising from lost data will not be accepted.

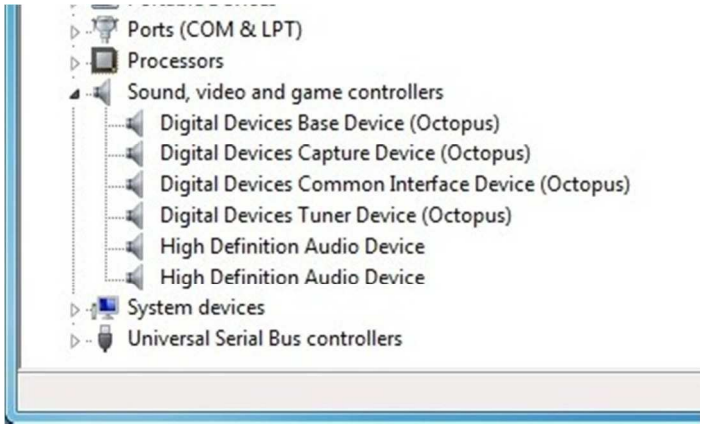
Please ensure you follow the safety precautions for your PC
(consult the PC manual).

After a successful driver installation, four new devices will be identified by the operating system.

Example of an installation under Windows® 7 with a Common Interface (CI) connected:-


Gerätetreiberinstallation
The device can now be used
Digital Devices Ngene Base Device (v6)
Now ready to use
Digital Devices Ngene Ngene Capture Device (v6)
Now ready to use
Digital Devices Ngene DVB-C/T/S/S2 Tuner (v6)
Now ready to use
Digital Devices Ngene Common Interface Device (v6)
Now ready to use
Schließen

In Windows 7 Device Manager, under 'Sound, video and game controllers', you will find 4 entries for Digital Devices (without a CI there will only be 3 entries).

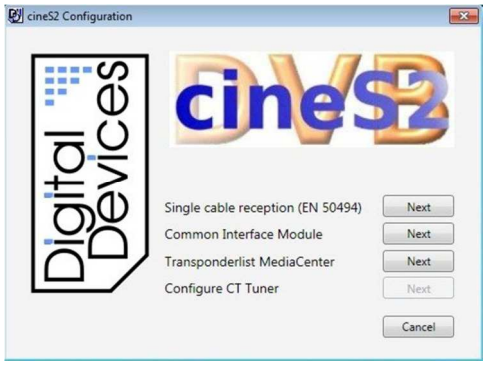

Ports (COM & LPT)
Processors
Sound, video and game controllers
Digital Devices Base Device (Octopus)
Digital Devices Capture Device (Octopus)
Digital Devices Common Interface Device (Octopus)
Digital Devices Tuner Device (Octopus)
High Definition Audio Device
High Definition Audio Device
System devices
Universal Serial Bus controllers

11. DVB Cine Config Tool

After the restart you can configure the TV card in Windows® Media Center or an alternative software TV program.
You will now find a folder called "Digital Devices" in the Windows® Start Menu (Desktop -> Start -> All programs).
You will find "DVBCineConfig" in the sub-folder "DVB Devices":-

This program allows you to configure the following:-

- Unicable®
- Common Interface
- Transponder List for Windows® Media Center
- Configuration of the C/T Tuner



DVBCineConfig Main menu

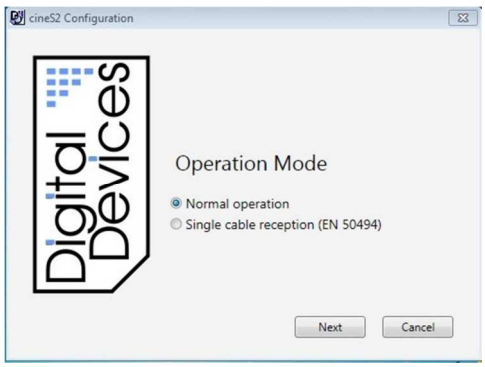
Single cable reception (Unicable Configuration)

Common Interface Module

Transponder List Media Center

Configuration of C/T tuner

(Unicable®) / SCR Single cable solution En 50494



Unicable® / SCR En 50494
→Operation Mode Selection

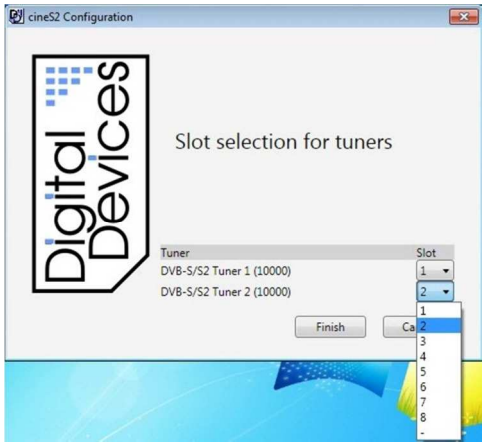
Normal operation (without Unicable)

Single cable reception,
Unicable configuration EN 50494

Unicable reception
→Operation Mode
→LNB/Switch Selection

Selection of the LNB / Multiswitch manufacturer

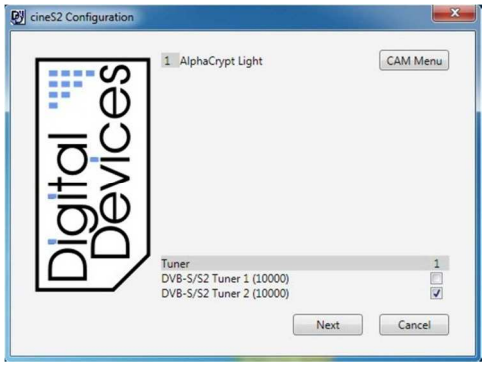
Selection of the LNB or Multiswitch



Unicable reception
→Operation Mode
→LNB/Switch Selection
→Selection of assignable slots

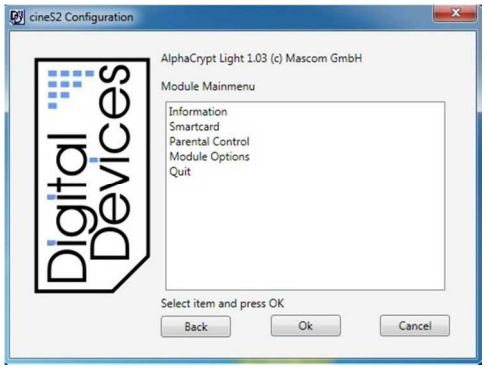
Assignment of each tuner to a slot.

Common Interface Module (CI) – Example with an easy.TV module



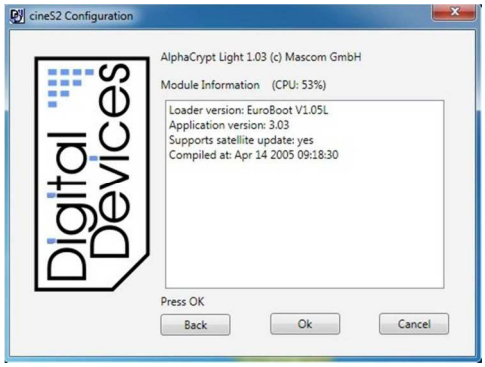
Common Interface Module (CI)
Assign the CI to one tuner only, or
if the CAM supports MTD Technology, multiple tuners can be assigned to this single CAM.
The “CAM Menu” button provides access to the CAM configuration dialogue.

(Please note that the CAM menu structure is dependent upon the particular CAM installed and menu details may differ slightly from the examples shown here)



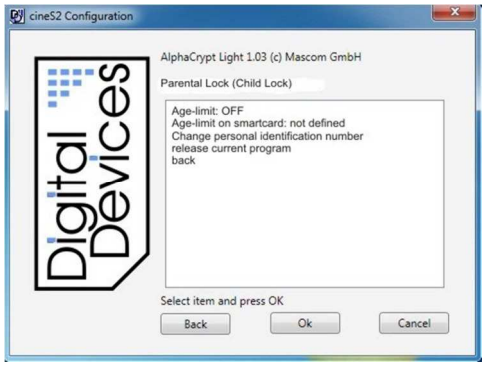
Common Interface Module (CI)
→CAM Mainmenu

The sub-menus provide information regarding your Smart Card and its configuration.



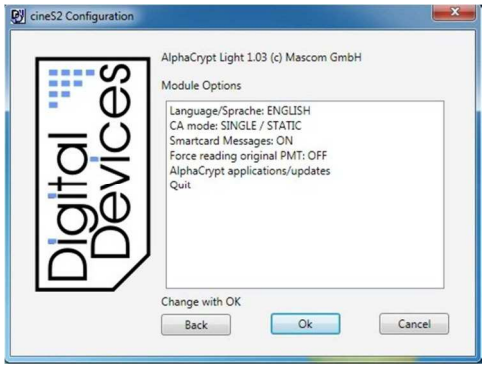
Common Interface Module (CI)
→CAM Mainmenu
→Informations

This menu provides data for your CAM module.



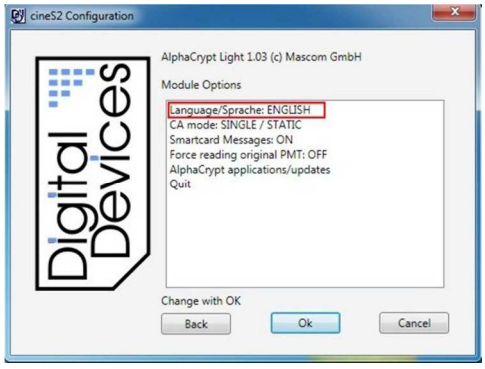
Common Interface Module (CI)
→CAM Mainmenu
→Parental Lock (child lock)

Age-limit: OFF
Age-limit on smartcard: not defined
Change personal identification number
release current program
back



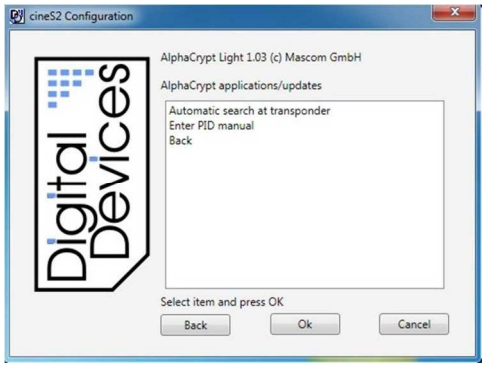
Common Interface Module (CI)
→CAM Mainmenu
→Module Options

The module options are set here.
Note: In MTD Mode the Parental lock must be disabled. In Media Center it is not possible to address a Parental lock PIN.
Select ‘Youth Protection’ in Media Center, if required.



Common Interface Module (CI)
CAM Mainmenu
→Module Options
→Language

Select the desired operating language.



Common Interface Module (CI)
CAM Main menu
→Module Options
→AlphaCrypt application/ updates

Optional software updates (auto search and install) for your CAM.
Select the desired update option and enter the PID manually.

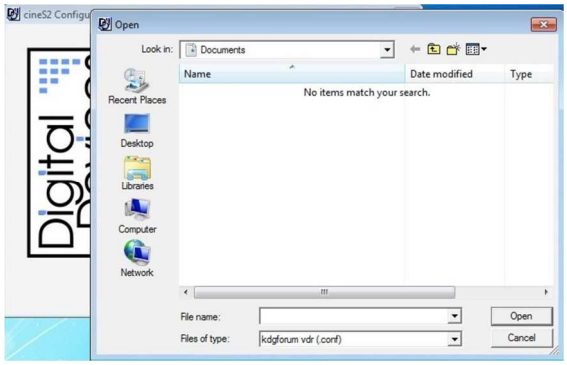
Common Interface Module (CI)

Confirm the settings for the CAM and CI modules and the assignment of slots for the tuners by hitting the “Done” button, and then restart the PC.

Transponder List

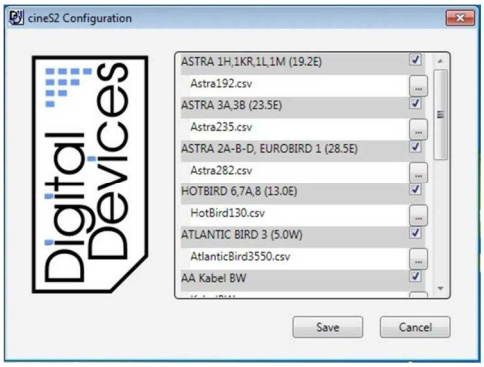
Transponder List Main Menu

Option to load a pre-defined transponder list into Windows® Media Center.



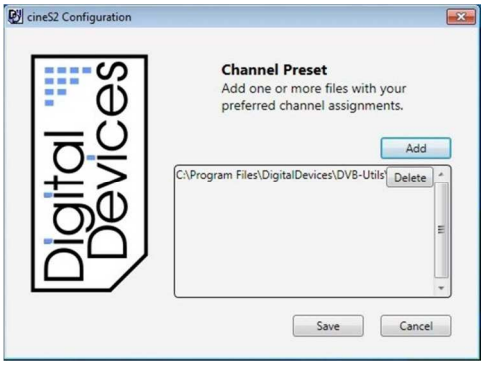
Transponder List Main Menu
→Transponder list conversion

An existing transponder list, which you may have created using, for example, TransEdit (DVB Viewer ®), can be converted here.



Transponder List Main Menu
→Transponder list selection

Check the relevant tick-box for the transponder lists appropriate for your own broadcast reception. In this example, Astra 19.2 East and Atlantic Bird are selected. Confirm your entries with “Save”.



Transponder List Main Menu
→Choosing a default setting

One or more channel lists can be included. The channels in the channel list are ready-sorted.

To learn how to create a pre-defined channel list, see the next section.

Transponder List Main Menu
→Creation of a transponder list for Media Center

By clicking the button indicated a transponder list will be created for Windows® Media Center.

Transponder List Main Menu
→Load the transponder list into Media Center

By clicking on the “Load” button, the transponder list will be copied into Windows® Media Center.

The installation in Media Center is described in the following chapter.

Configuration of C/T Tuner

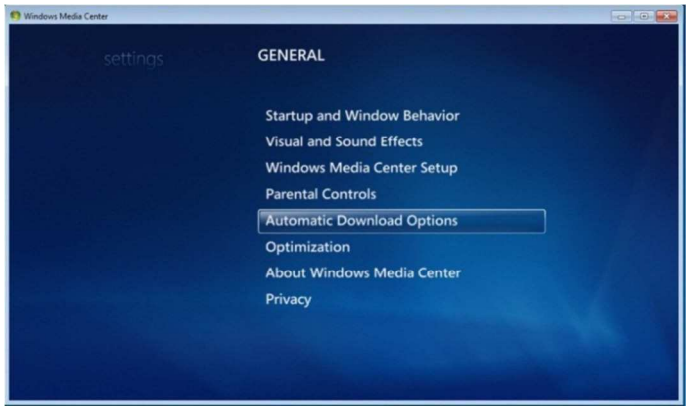
Configuration of the C/T Tuner is covered in the User Manual for the Cine C/T and DuoFlex C/T.

12. Hardware Setup in Windows® Media Center (MCE)

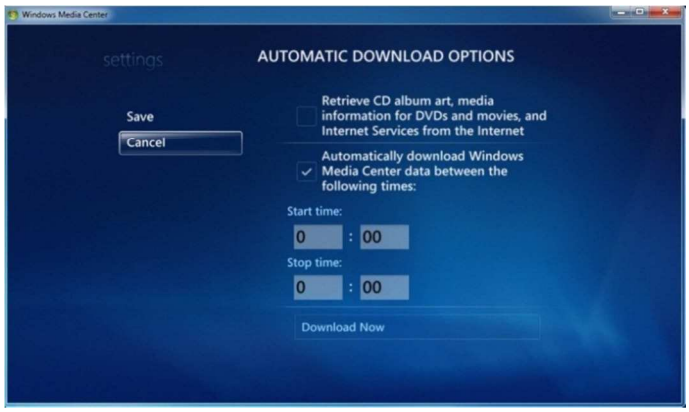
When the transponder list has been loaded in Media Center, as described in Chapter 12, it now needs to be activated.
The option for automatic download of media information for DVDs, movies and internet related services under “Settings > General Options” must be disabled. Please follow these steps:-

Go to the
“Functions / Settings” menu

Click
“General“



Click
“Options for automatic downloads“



Disable the option to “Receive CD cover, media information for DVDs and movies and internet services “

You can activate this option again after successful installation of the TV card.

(Unless this option is disabled a required menu will not displayed when the TV card is being set up)

Go back into the main “Settings“ menu

Now the TV card can be installed.
Click “TV“ in the menu

Click on “TV-Signal“

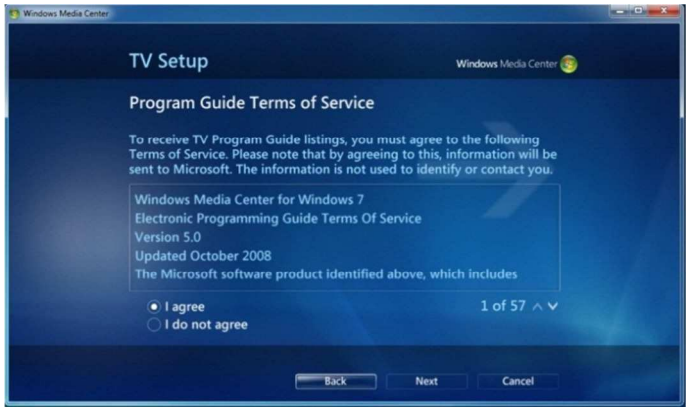
Click on
“Set up the TV-Signal“

Windows Media Center
TV Setup
Windows Media Center
Region
Your region is used to configure your computer for local TV services.
Region: United Kingdom
Is this the correct region?
Yes, use this region to configure TV services
No, I want to select a different region
Back
Next
Cancel

Confirm selection of your region with
“Yes, use this region for the configuration of the TV services“

Or, choose a different region

Input your Post Code


Windows Media Center
TV Setup
Windows Media Center
Program Guide Terms of Service
To receive TV Program Guide listings, you must agree to the following Terms of Service. Please note that by agreeing to this, information will be sent to Microsoft. The information is not used to identify or contact you.
Windows Media Center for Windows 7
Electronic Programming Guide Terms Of Service
Version 5.0
Updated October 2008
The Microsoft software product identified above, which includes
I agree
I do not agree
1 of 57
Back
Next
Cancel

Read the “Terms of use“ and confirm with “I agree“

or, “I do not agree” cancels setup

Windows Media Center
TV Setup
Windows Media Center
Update TV Setup Data
Before you begin TV signal setup, Windows Media Center can check for and download the most up-to-date TV setup data and Guide listings for your region.
Do you want to download new data now?
Yes
No
Back
Next
Cancel

"**NO**" must be selected here, otherwise the newly loaded transponder list will be overwritten.

A message, "You will receive no TV-Channel lists to download. Continue?" will appear. Confirm with **"Yes"**

The TV signals are verified.

Windows Media Center
TV Setup
Windows Media Center
TV Signal Detection Result
Windows Media Center detected the following:
Digital Satellite (DVB-S) (2 tuners)
Is this configuration correct and complete?
Yes, configure TV with these results
No, let Windows Media Center detect again
No, let me configure my Digital Satellite (DVB-S) manually
Back
Next
Cancel

The detected TV signal will be displayed with a request for confirmation.
Confirm with
"Yes, configure the TV signal with these results"
(2 tuners have been detected, indicating both tuners have a coaxial cable connection with sufficient signal strength)
Alternatively, re-execute signal detection,
Or, configure the signal manually

Windows Media Center
TV Setup
Windows Media Center
Satellite TV Signal Configuration
Windows Media Center detected the following satellite:
Satellite: ASTRA 1H,1KR,1L,1M (19.2E) (by Digital Devices)
Signal Quality:
Is this configuration correct and complete?
Yes, configure satellite TV with these results
No, I want to select from a list of satellites
Back
Next
Cancel

If the channel list has been successful loaded, you will see, for example,
Satellite: ASTRA 1H,1KR,1L,1M (19,2E) **(by Digital Devices).**

Confirm the result with, "Yes"

Windows Media Center
TV Setup
Windows Media Center
TV Signal Configuration
The following TV signals will be configured for Windows Media Center:
Digital Satellite (DVB-S) (ASTRA 1H,1KR,1L,1M (19.2E) (by Digital Devices), 2 tuners)
Select Next to confirm.
Back
Next
Cancel

Click, “Next”

These settings will be saved

In the following menu, select the required EPG reception mode, either automatic or manual

Windows Media Center
TV Setup
Windows Media Center
TV Signal Setup Finished
You have finished configuring Windows Media Center with the following settings:
Digital Satellite (DVB-S) (ASTRA 1H,1KR,1L,1M (19.2E) (by Digital Devices), 2 tuners)
Select Finish to exit.
Finish

Setup is now complete.
Confirm with, “Finish“

The Pay TV channels must now be activated in “Settings”

In the Settings menu select “Guide”

Select “Edit channels”

Windows Media Center
settings
EDIT CHANNELS
To change the settings for a channel, select the channel name and press OK on the remote control. Select or clear the check mark to enable or disable the channel.
Save
Cancel
Clear All
Sort by Name
Restore Default
Reorder Channels
Show Preview
745 C+ XTRA HD
746 C+ FÚTBOL HD
747 SAT.1 HD
748 ProSieben HD
749 kabel eins HD
750 SIXX HD
751 Service 6402
751 of 1222

Activate the Pay TV channels by clicking in the relevant boxes

Windows Media Center
settings
EDIT CHANNELS
To change the settings for a channel, select the channel name and press OK on the remote control. Select or clear the check mark to enable or disable the channel.
Save
Cancel
Clear All
Sort by Name
Restore Default
Reorder Channels
Show Preview
745 C+ XTRA HD
746 C+ FÚTBOL HD
747 SAT.1 HD
748 ProSieben HD
749 kabel eins HD
750 SIXX HD
751 Service 6402
751 of 1222

After you have activated the channels and have mapped their locations, save the channel list and exit.

Windows Media Center
guide
Thu, 09 Jun
16:25
16:30
17:00
17:30
VIEW CATEGORIES
121 NAT GEO HD No data available.
122 AXN HD CROSSING JORDAN (T5) No data available.
123 FOX HD BONES (HD) (T4) No data available.
124 CALLE 13 HD KATE (FAIRLY LEGAL) (T1) THE CLOSER (T6)
125 EUROSPORT HD CRITÉRIUM D OCTAVOS DE FINAL
126 C+ DEPORT HD MLB (HD)
127 C+ FÚTBOL HD NEW YORK - COLU MÁS D No data available.
16:25
NEW YORK - COLUMBUS CREW (HD)
'New York Red Bulls - Columbus Crew' T2011 La Major League Soccer se juega en Canal +. 18 equipos divididos en dos conferencias, Este y Oeste, se enfrentan a lo largo de 30 jornadas con el objetivo de jugar los Playoff
14:40 - 16:40

Now start Live TV or the EPG. Once you have selected a Sky channel on a transponder, you can see the EPG data for the transponder and the Program Guide for the optional channels.

13. Channel List Creation

You have the ability to create pre-defined channel lists. Examples of pre-defined channel lists can be found in your Programs folder under “Digital Devices \ DVB-Utils“.

These files are:

- PresetDE.csv → includes the standard channels in the region: Germany.
- PresetAT.csv → includes the standard channels in the region: Germany Austria.
- PresetCH.csv → includes the standard channels in the region: Switzerland.
- PresetNL.csv → includes the standard channels in the region: Netherland.
- PresetFR.csv → includes the standard channels in the region: France.
- PresetRadio.csv → includes the standard radio channels.
- PresetSkyGermany.csv → includes the standard channels for SKY TV (Germany).

These lists can be edited using a spreadsheet such as Excel, or in a text editor.
To change the channel order, change its number value.
Ensure where possible that no channel is entered more than once, as this could lead to problems later in Windows Media Center. After editing the file, it must be saved in UTF8 format.

As an alternative to editing manually in Excel or in a text editor, please refer to the Digital Devices Knowledge Base online and search for a tool called "DD channel sorter", which provides a simpler means of sorting / rebuilding the channel lists.

The remaining files in the directory, for example, "Astra192.csv" are not channel lists. These files contain frequency information and should not normally be changed. When the frequency of a channel is changed the channel data can be edited in these files.

14. Troubleshooting

If an error occurs run through the checklist below to find a solution.

- Check that the PC and all peripheral devices are powered on.
- Turn the computer off and re-check all cable connections.
- Do not swap cables attached to different devices indiscriminately, even if they appear to be identical.
- If you are sure that the power supply is operating properly, turn the computer back on.

Many mistakes can be avoided through the regular use of the Chkdsk, ScanDisk and Disk Defragmenter programs. These programs promote efficient system performance.

No TV Picture / No Radio Sound

- Check that the antenna cable(s) is connected to the correct connector(s).
- Is the signal from the antenna cable sufficiently strong or require boosting?
- Does your LNB have power? Consult the manual for the LNB.
- Is the floppy connector which powers the LNB via the TV card properly connected?
- Check that your PC meets the system requirements (refer to the packaging box cover).
- Are the DiSEqC settings properly configured for the TV card?
- Is a digital or universal LNB/LNC available?
- Try installing the TV card in a different PCIe slot.
- Unicable®/CENELEC En50494: ensure Unicable® has been properly configured using the 'DVBCineConfig' tool.
  (Start -> All programs -> Digital Devices -> DVB Devices -> DVBCineConfig)

No videotext

- Has the Teletext program started previously?
- Are there sufficient system resources?

Hardware conflicts and system crashes

- **Try using a different PCI Express slot**
- Some motherboards do not recognise Digital Devices' DVB cards in the PCI Express x16 slot. In such cases try using either a PCIe x1 or x4 slot.
- In the BIOS setup for your motherboard, disable 'C1E Support'.
- In the BIOS setup, 'PCI Express overclocking' must be set to '100' (not to 'auto').
- For 'Intel® Core i' systems, the latest video & chipset drivers (version 15.17.9.2182) must be used (older versions can cause problems).
- AMD graphics cards can produce 'blocking' in HD displays. Turn off DXVA (DirectX Video Acceleration) to resolve this problem
- **Please contact your dealer if you continue to experience problems. More complex errors should be investigated and corrected by a specialist.**

15. Electromagnetic Measurement and Declaration of Conformity

SGS-TUEV Saarland Forster GmbH

Test Report

EUT Information

Description:
EUT Name: DVBS2
ManufaC/Turer: Linux4Media GmbH
Typ:
S/N:
HW Rev: 5V3
SW/FW Rev:
Operating cond.: Tuner 2 , DVB-SII Live Stream
Operator: Dipl. -Ing. (FH) Sven Eric Weber
Test Spec.: EN55013
Test Side: SAC 1
Supply: AC230V
Comment: Mit Desktop PC

EMI Auto Test Template: EN55013

Hardware Setup: EMI radiated\EleC/TricField Strength VULB
Frequency Range: 30MHz - 1GHz
Graphics Level Range: 0dBµV/m - 80dBµV/m
Preview Measurements:
Scan Test Template: Prescan Field Strength VULB oH
Data ReduC/Tion:
1st Limit Line: EN 55013 EleC/Tric Field Strength 3 m QP
Maximum Results: 25
Acceptance Offset: -15 dB
Maximization Measurements:
Template for Single Meas.: Max Field Strength VULB oH
Adjustment:
Scan Template for
Adjustment Measurements : Max Field Strength VULB oH
Final Measurements:
Template for Single Meas.: Final Field Strength VULB oH

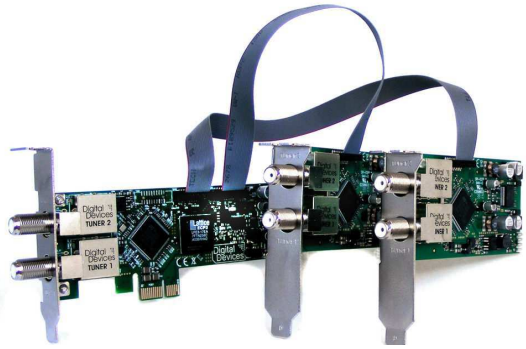
Subrange	DeteC/Tors	IF Bandwidth	Meas. Time	Receiver
30 MHz – 1GHz	Quasi Peak	120 kHz	1 s	ESBI

Report Settings: Create EleC/Tronic Report: PDF
Document Name: EMI Report
Institute: SGS-TUEV Saarland Forster GmbH
10.08.2009
Page: 1
Time: 12:05:11 / 10.08.2009

16. Expansion options DuoFlex S2 (examples)

All Digital Devices DVB components can be combined and inter-connected. A very wide variety of combinations can be achieved.
In Section 7 above, two basic configurations have been illustrated, (1) with a bridge and (2) with a Cine S2.
Illustrated below are further examples of a typical installation with a DuoFlex S2:-

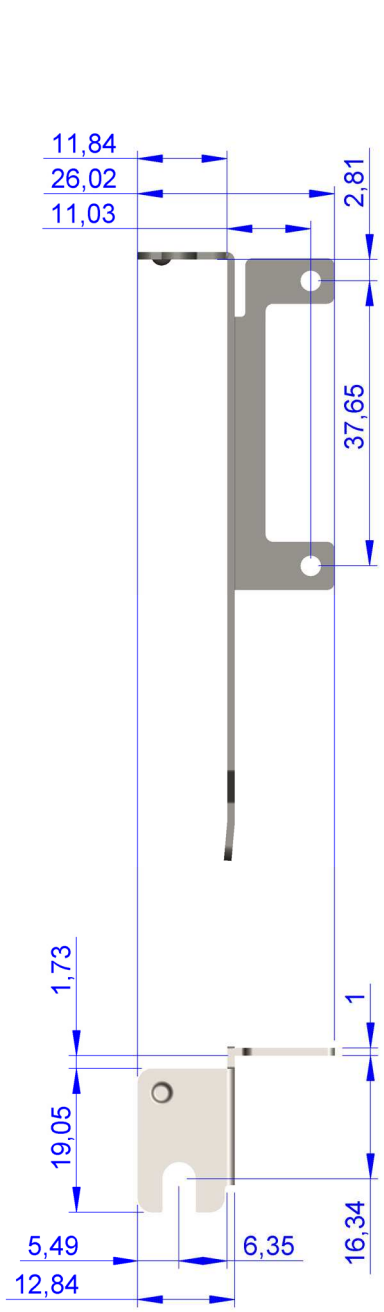
Combination examples:

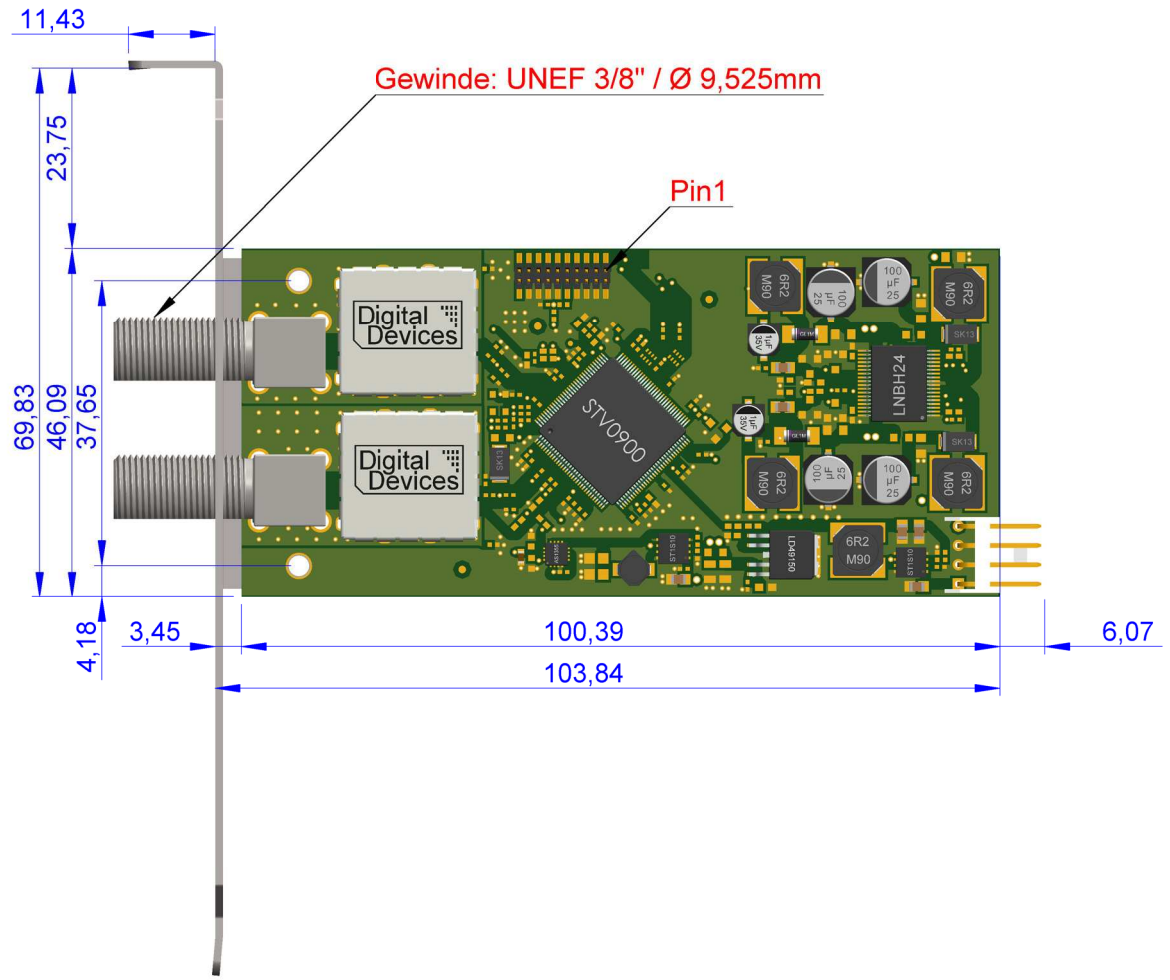
1 Cine S2 + **2 DuoFlex S2 =** **6 DVB-S2 tuners**	**1 Cine S2 +** **1 DuoFlex S2 +** **1 CI =** **4 DVB-S2 + 1 CI** MTD (Multi Transponder Decrypting): Decrypt 4 encrypted TV channels with only 1 CAM! View 1 encrypted program while recording up to 3 others. NB Not all CAMs support this feature. Compatible CAMs can be found on our website.
	
1 Cine C/T + **1 DuoFlex S2 +** **1 CI =** **2 DVB-S2 + 2 DVB-C/T + 1 CI**	**1 Octopus PCIe Bridge +** **2 DuoFlex S2 +** **1 DuoFlex C/T + 1 CI =** **4 DVB-S2 + 1 DVB-C/T Tuner + 1 CI**

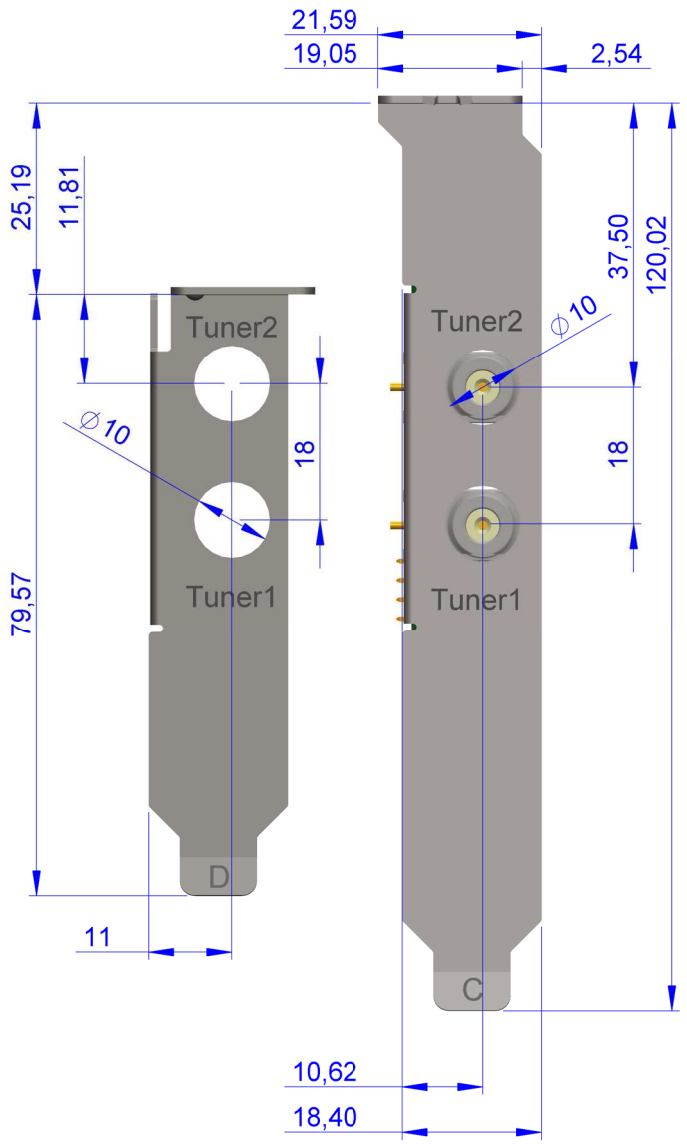
- Microsoft is a trademark of the Microsoft group of companies
- Windows is a registered trademark of the Microsoft Corporation in the United States and other countries
- All other trademarks are property of their respective owners

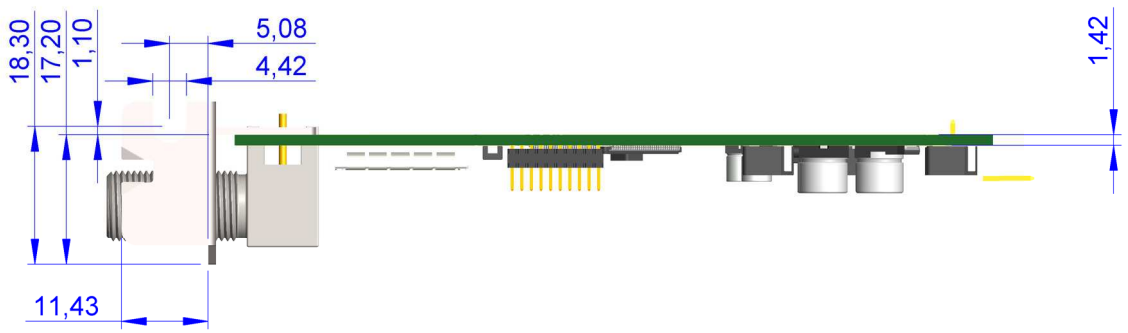
Tenchnische Zeichnung

DuoFlex S2 TV Card V3









EAN Nummer	Artikelbezeichnung
4260217680075	DuoFlex S2 TV Card V3, Solo (Bulk)
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